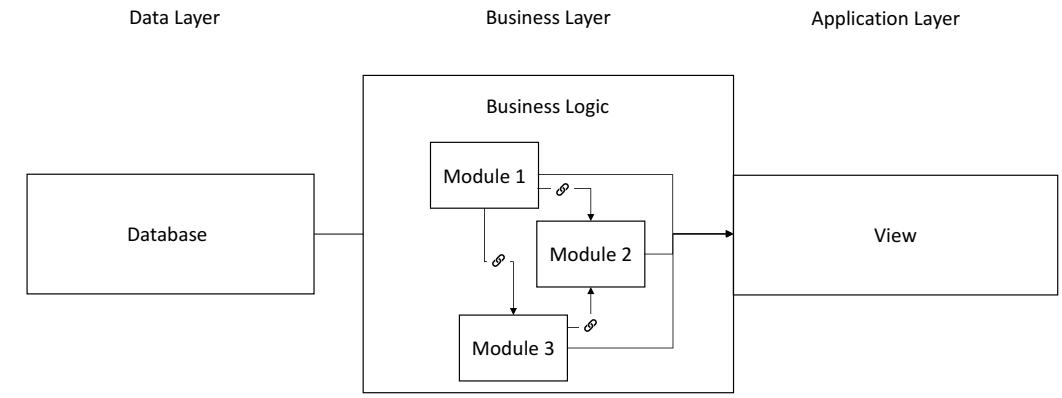
BRG 19
VIENNA

1

2

3

3.1

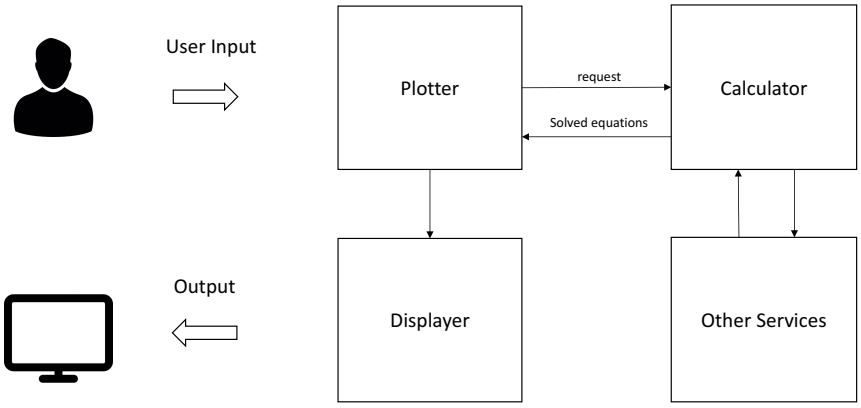


Legend:
- Dependent on

3.2

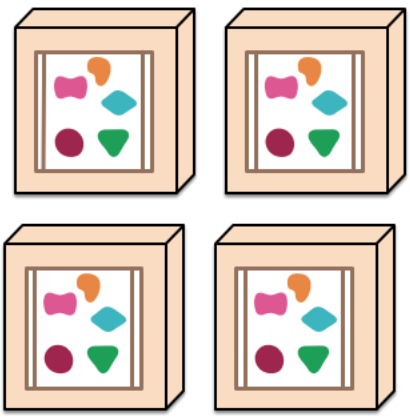
4

4.1

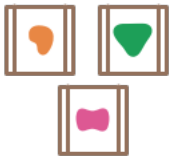


A monolithic application puts all its functionality into a single process...

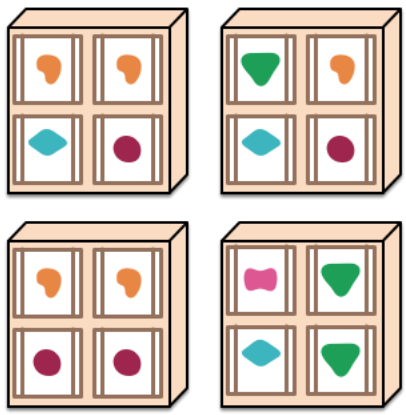
... and scales by replicating the monolith on multiple servers



A microservices architecture puts each element of functionality into a separate service...



... and scales by distributing these services across servers, replicating as needed.



4.2

4.2.1

4.2.2

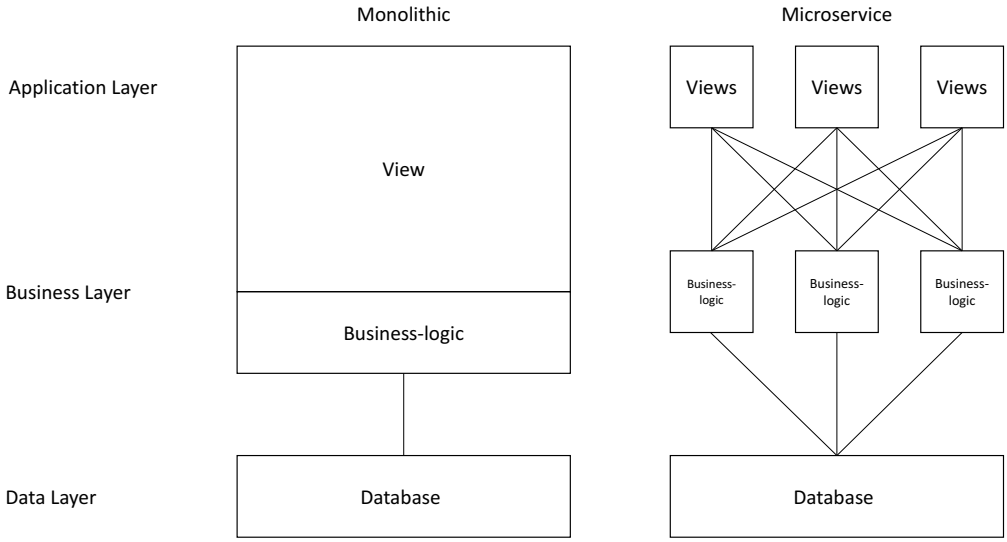
4.2.3

5

5.1

5.1.1

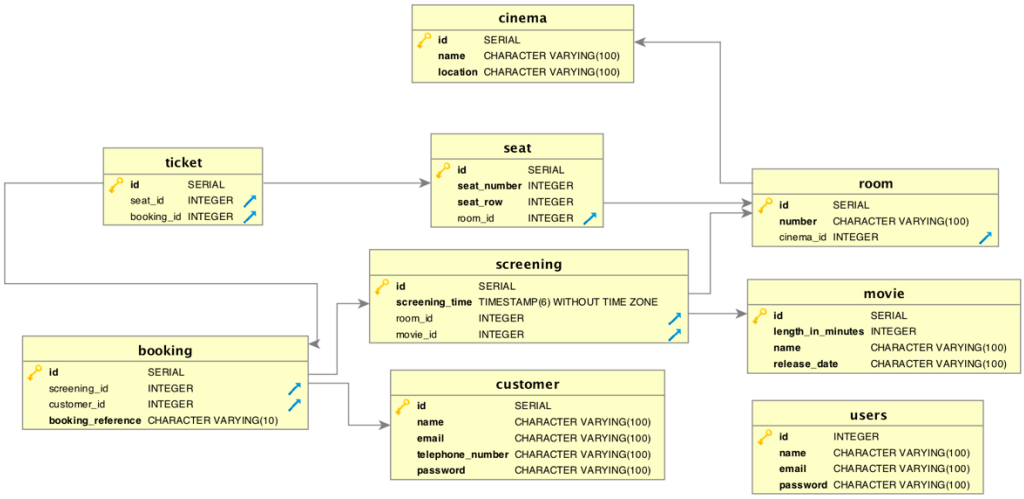
5.1.2


Monolithic
Microservice
Application Layer
Business Layer
Data Layer
View
Business-logic
Database
Views
Views
Views
Business-logic
Business-logic
Business-logic
Database

5.1.3

5.1.4

5.1.4.1



5.2

5.2.1

5.2.1.1

```
1.
2.
3.
4.
5.
6.
7.
8.
9.
10.
11.
12.
```

```
1.
2.
3.
4.
5.
6.
7.
8.
9.
10.
```

5.2.1.2

```
1.
2.
3.
4.
5.
6.
```

```
1.
2.
3.

4.
```

5.2.2

```
1.
2.
3.
4.
5.
```

5.3

5.3.1

5.3.2

```
1.
2.
3.
4.
```

```
1.
2.
3.
4.
5.
6.
7.
8.
```

```
1.
2.
3.
4.
```

5.3.3

```
1.
2.
```

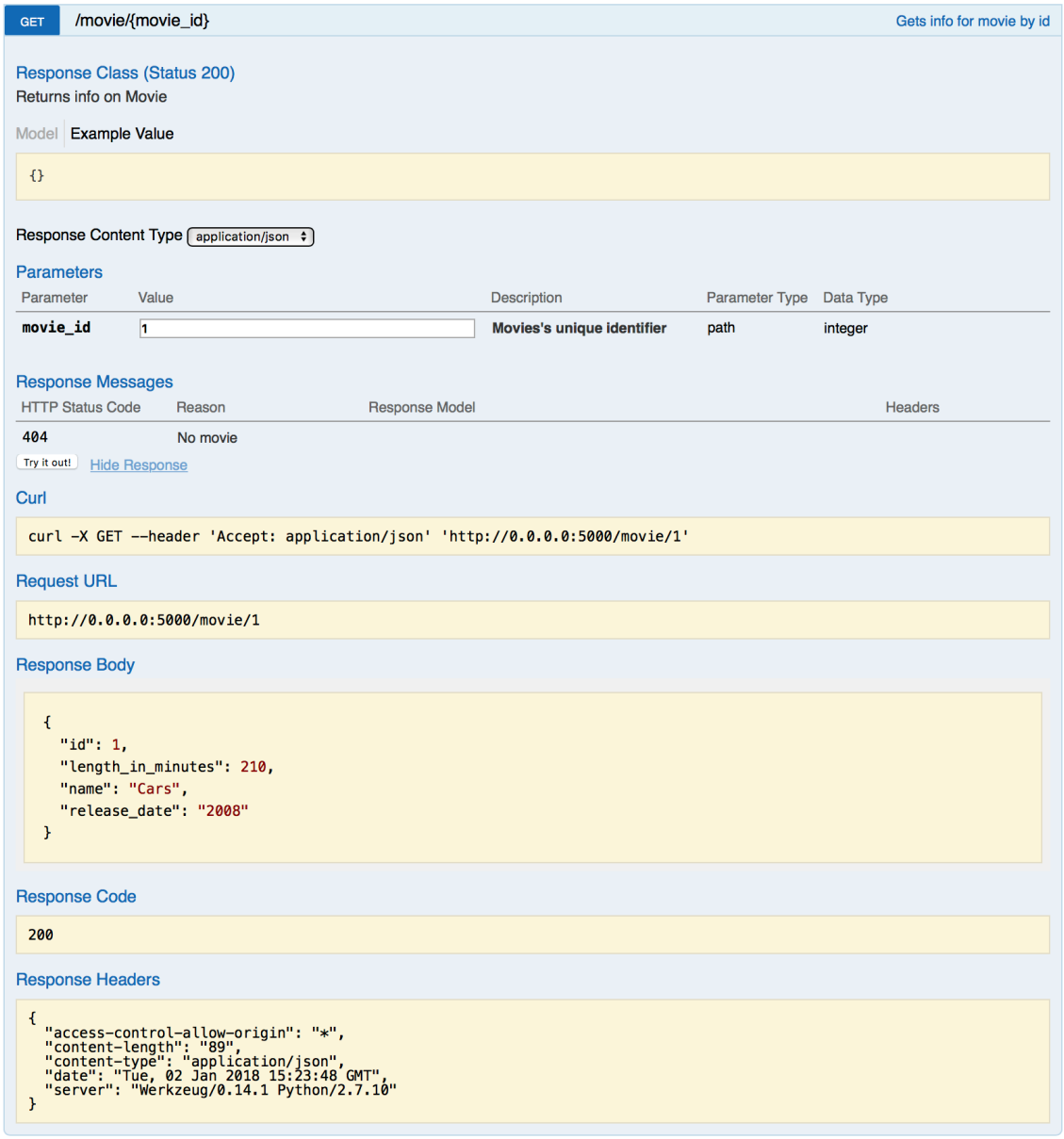
```
3.
4.
5.
6.
```

5.3.4

```
1.
2.
3.
4.
```

5.3.5

```
1.
2.
3.
4.
5.
6.
7.
8.
9.
10.
11.
12.
13.
14.
```


GET
/movie/{movie_id}
Gets info for movie by id
Response Class (Status 200)
Returns info on Movie
Model
Example Value
{}
Response Content Type
application/json
Parameters
Parameter
Value
Description
Parameter Type
Data Type
movie_id
1
Movies's unique identifier
path
integer
Response Messages
HTTP Status Code
Reason
Response Model
Headers
404
No movie
Try it out!
Hide Response
Curl
curl -X GET --header 'Accept: application/json' 'http://0.0.0.0:5000/movie/1'
Request URL
http://0.0.0.0:5000/movie/1
Response Body
{
"id": 1,
"length_in_minutes": 210,
"name": "Cars",
"release_date": "2008"
}
Response Code
200
Response Headers
{
"access-control-allow-origin": "*",
"content-length": "89",
"content-type": "application/json",
"date": "Tue, 02 Jan 2018 15:23:48 GMT",
"server": "Werkzeug/0.14.1 Python/2.7.10"
}

5.3.6

5.4

5.4.1

5.4.2

```
1.
```

```
1.
```

5.4.3

6

6.1

1.
2.

1.
2.

3.

4.

5.

6.

6.1.1

6.1.1.1

6.1.1.2

6.1.1.3

6.1.1.4

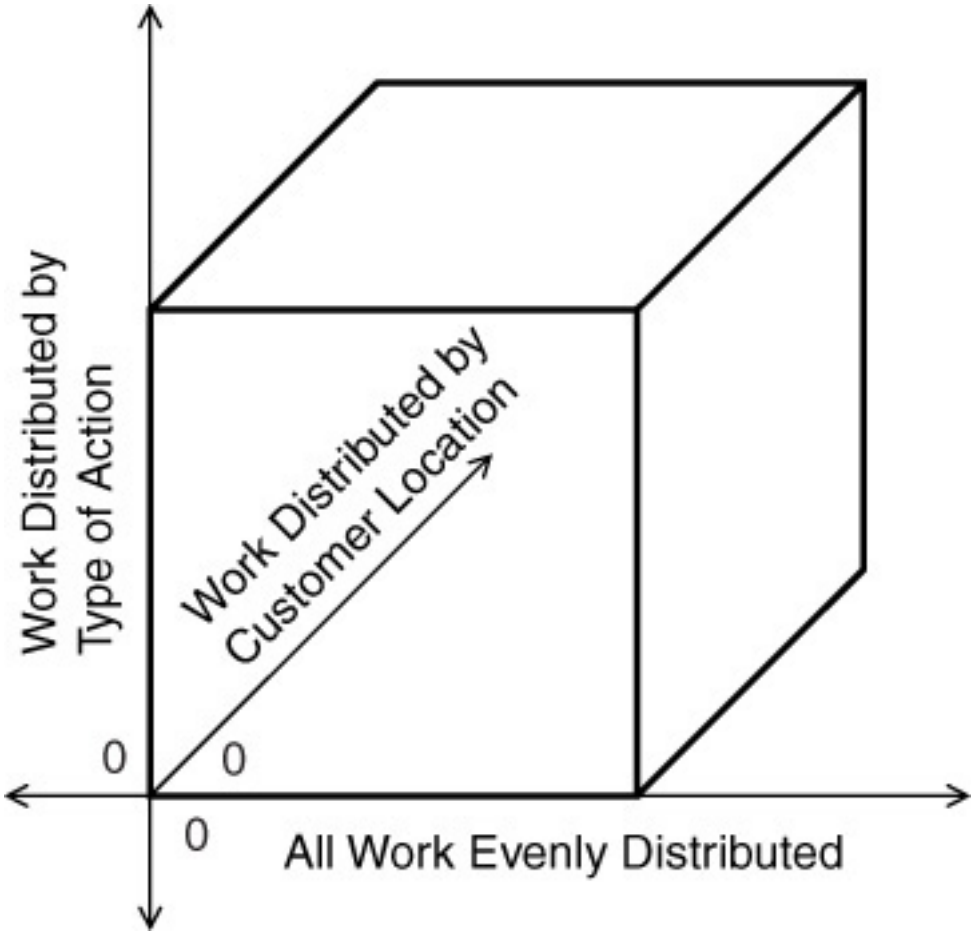
6.1.1.5

6.1.1.6

6.1.2

6.1.2.1

6.1.2.2


Work Distributed by
Type of Action
Work Distributed by
Customer Location
0
0
0
All Work Evenly Distributed

6.2

1.
2.
3.
4.
5.
6.

1.
2.
3.
4.

6.2.1

6.2.1.1

6.2.1.2

6.2.1.3

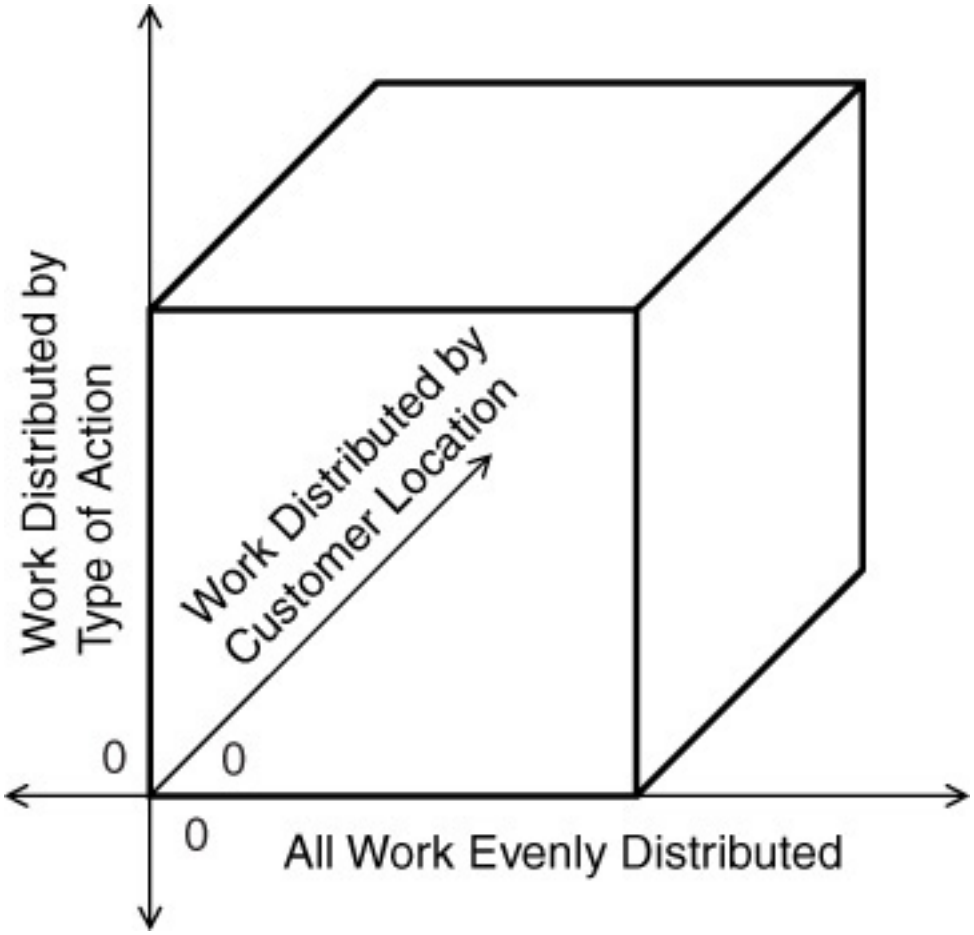
6.2.1.4

6.2.2

6.2.2.1

6.2.2.2

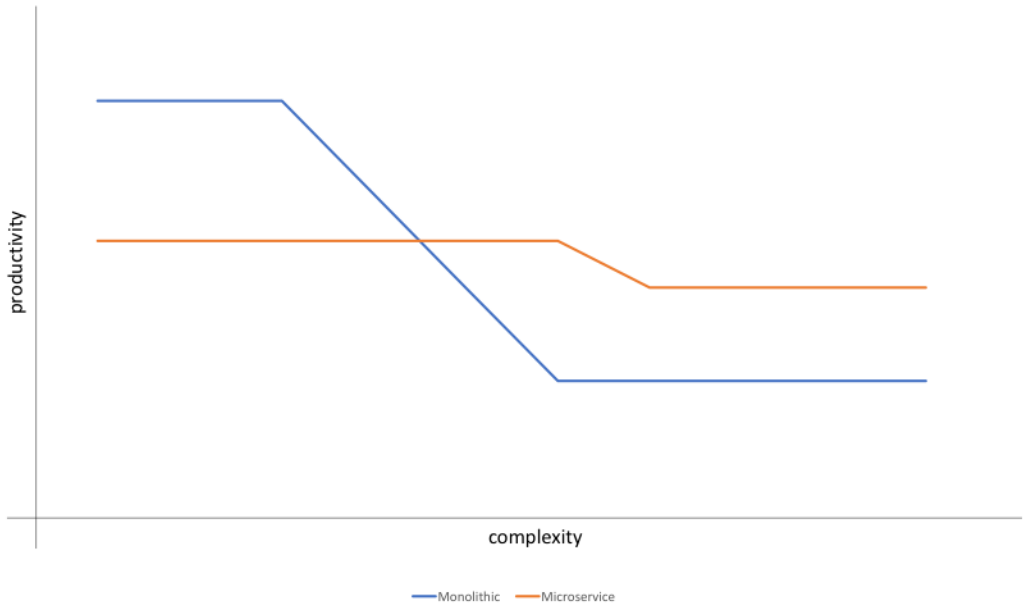
6.2.2.3



6.2.2.4

6.2.2.5

7



8

9